

IN THE CLAIMS

Please cancel claims 1-8 and add new claims 9-16 as follows:

9. (New) A gas turbine having a turbine, a combustor and a gas turbine compressor, comprising:

a heat exchanger for exchanging heat of a part of the air compressed by said gas turbine compressor;

a mist separator for separating mists in the air having been heat exchanged in said heat exchanger;

a filter for removing dusts in the air from said mist separator;

a first boost compressor for compressing the air from said filter;

a second boost compressor for compressing the air from said filter, said first boost compressor and said second boost compressor being constructed so that the air from said first boost compressor and the air from said second boost compressor are joined;

a spray air system arranged so that the air is supplied from an air joining portion where the air from said first boost compressor and the air from said second boost compressor are joined prior to being supplied to said combustor as air for spraying fuel; and

a cooling air system arranged so that the air is supplied from said air joining portion to a high-temperature part of said gas turbine as air for cooling.

10. (New) A gas turbine comprising:

a heat exchanger for exchanging heat of a part of air compressed by a gas turbine compressor;

a mist separator for separating mists in the air having been heat exchanged in said heat exchanger;

a filter for removing dusts in the air from said mist separator;

a first boost compressor for compressing the air from said filter;

a second boost compressor for compressing the air from said filter, said first boost compressor and said second boost compressor being constructed so that the air from said first boost compressor and the air from said second boost compressor are joined;

a spray air system arranged so that the air is supplied from an air joining portion where the air from said first boost compressor and the air from said second boost compressor are joined prior to being supplied to a gas turbine combustor as air for spraying fuel;

a cooling air system arranged so that the air is supplied from said air joining portion to a high-temperature part of said gas turbine as air for cooling; and

means for switching the supply of air from said first boost compressor and the supply of air from said second boost compressor.

11. (New) A gas turbine having a turbine, a combustor and a gas turbine compressor, comprising:

a heat exchanger for exchanging heat of a part of the air compressed by said gas turbine compressor;

a mist separator for separating mists in the air having been heat exchanged in said heat exchanger;

a filter for removing dusts in the air from said mist separator;

a first boost compressor for compressing the air from said filter;

a second boost compressor for compressing the air from said filter, said first boost compressor and said second boost compressor being constructed so that the air from said first boost compressor and the air from said second boost compressor are joined;

a spray air system arranged so that the air is supplied from an air joining portion where the air from said first boost compressor and the air from said second boost compressor are joined prior to being supplied to said combustor as air for spraying fuel;

a cooling air system arranged so that the air is supplied from said air joining portion to a high-temperature part of said gas turbine as air for cooling; and

means for switching the supply of air from said first boost compressor and the supply of air from said second boost compressor.

12. (New) A gas turbine according to claim 9, wherein a further filter is provided downstream of said first boost compressor.

13. (New) A gas turbine according to claim 9, wherein said second boost compressor is constructed to be drivable during a starting time of said turbine.

14. (New) a gas turbine according to claim 9, wherein said second boost compressor is provided with a means for preventing damage thereof.

15. (New) A method of supplying fuel spray air and cooling air of a gas turbine having a turbine, a combustor and a gas turbine compressor, said method comprising:

heat exchanging a part of air compressed by said gas turbine compressor;

separating mists in the air having been heat exchanged;

removing dusts in the air from which mists are separated;

a first air compression step of compressing the air after removing dusts by a first boost compressor;

a second air compression step of compressing the air after removing dusts by a second boost compressor;

joining the air compressed by said first boost compressor and the air compressed by said second boost compressor;

supplying the joined air to said gas turbine as air for spraying fuel; and

supplying the joined air to a high temperature part of said gas turbine as air for cooling.

16. (New) A method according to claim 15, wherein said second boost compressor is constructed to be driven during a starting time of said turbine;

the air compressed by said second boost compressor is supplied to said combustor and said high temperature part of said gas turbine during the starting time of said gas turbine; and

when said gas turbine rises in speed to a predetermined rotational speed, said second boost compressor is stopped and the air compressed by said first boost compressor is supplied to said combustor and said high temperature part of said gas turbine.